

### Abstract

5 Polymeric compositions that include polyurethane polymers derived from a  
polyisocyanate compound and a polyactive hydrogen compound. The polyurethane  
compound is at least partially endcapped with a group including at least one  
antimicrobial quaternary ammonium compound. The polymeric composition of the  
present invention is capable of forming a self-supporting film. The polymeric  
10 compositions are suitable for coating substrates to effectively kill or prevent the  
growth of microorganisms such as bacteria, mold, mildew, algae fungi and the like.  
The polymeric compositions are particularly useful for protecting construction  
materials used in moist, outdoor environments to prevent discoloration or decay  
from microorganisms and for surfaces in health care facilities to mitigate the spread  
of pathogens.

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